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CALENDAR

Third Term in Agriculture, 1917

June 11,	Monday,	Registration.
June 12,	Tuesday,	Instruction begins.
Sept. 26,	Wednesday,	Instruction ends.

University Summer Session, and Summer Session in Agriculture, 1917

July 9,	Monday,	Summer Session begins.
Aug. 17,	Friday,	Summer Session ends.

First Term 1917-1918

Sept. 14,	Friday,	Entrance examinations begin.
Sept. 24,	Monday,	Academic year begins. Registration of new students.
Sept. 24,	Monday,	Examinations for University Undergraduate Scholarships begin.
Sept. 25,	Tuesday,	Registration of new students.
Sept. 26,	Wednesday,	Registration of old students.
Sept. 27,	Thursday,	Instruction begins. President's annual address to the students.
Sept. 29,	Saturday,	Registration, Graduate School.
Oct. 16,	Tuesday,	Last day for payment of tuition.
Nov.	Thursday,	Thanksgiving recess.
Dec. 19,	Wednesday,	Instruction ends
Jan. 3,	Thursday,	Instruction resumed } Christmas Recess.
Jan. 11,	Friday,	Founder's Day.
Jan. 26,	Saturday,	Instruction ends.
Jan. 28,	Monday,	Term examinations begin.

Second Term 1917-1918

Feb. 9,	Saturday,	Registration, undergraduates.
Feb. 11,	Monday,	Registration, Graduate School.
Feb. 11,	Monday,	Instruction begins.
Mar. 1,	Friday,	Last day for payment of tuition.
April 3,	Wednesday,	Instruction ends
April 11,	Thursday,	Instruction resumed } Spring Recess.
May 25,	Saturday,	Navy Day.
June 5,	Wednesday,	Term examinations begin.
June 19,	Wednesday,	Commencement.

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This circular of information is intended for prospective students, and is designed to give them general information about Cornell University and its various colleges, the requirements for admission, tuition fees and other expenses, etc.

On the last page of the cover of this pamphlet, there is printed a list of the Official Publications of the University, which includes the special announcements of the various colleges. Every prospective student should consult this list and send at once for the special announcement of the particular college that he intends to enter. This special college announcement and the General Circular of Information together contain all the information needed by the prospective entrant. If he has not definitely decided in which college he will study, he should send for the special announcements of all the colleges among which his choice lies.

Any of these informational publications will be sent gratis and post-free, and all inquiries are welcome and will be promptly answered by the Secretary of Cornell University, Ithaca, New York.

CORNELL UNIVERSITY

Cornell University was incorporated under the laws of the State of New York on April 27, 1865, and was opened on October 7, 1868. The existence of the University is due to the combined wisdom and bounty of the United States government, of the government of the State of New York, and of Ezra Cornell. The University is at Ithaca, New York, a city of fifteen thousand inhabitants, situated in a picturesque and healthful region. The University Campus overlooks a beautiful valley with Cayuga Lake in the distance. Ithaca may be reached by the Lackawanna or by the Lehigh Valley Railroad.

The total attendance of students by years has been as follows:

1868-69. 412	1877-78. 529	1886-87. 829	1896-97. 2105	1906-07. 4225
1869-70. 563	1878-79. 505	1887-88. 1022	1897-98. 2120	1907-08. 4465
1870-71. 609	1879-80. 463	1888-89. 1229	1898-99. 2543	1908-09. 4859
1871-72. 597	1880-81. 399	1889-90. 1329	1899-00. 2766	1909-10. 5194
1872-73. 539	1881-82. 384	1890-91. 1390	1900-01. 2980	1910-11. 5624
1873-74. 509	1882-83. 405	1891-92. 1670	1901-02. 3293	1911-12. 5848
1874-75. 532	1883-84. 447	1892-93. 1883	1902-03. 3457	1912-13. 6315
1875-76. 542	1884-85. 575	1893-94. 2040	1903-04. 3423	1913-14. 6496
1876-77. 561	1885-86. 649	1894-95. 2042	1904-05. 3841	1914-15. 6891
		1895-96. 2057	1905-06. 4122	1915-16. 7143

The officers of instruction of Cornell University number about 750. The campus and grounds of the University cover 1,378 acres. The main University buildings in Ithaca are grouped around a quadrangle flanked by Goldwin Smith Hall (history, languages, philosophy, political science, etc.), Lincoln Hall (civil engineering), Sibley College (mechanical engineering), White Hall (architecture, mathematics), McGraw Hall (geology, vertebrate zoology), Morrill Hall (administration, psychology), the University Library, Boardman Hall (law), and Stimson Hall (medicine), with Franklin Hall (electrical engineering), Rand Hall (pattern and machine shops), Morse Hall (chemistry), Rockefeller hall (physics), the buildings of the College of Agriculture, the Veterinary College, the Astronomical Observatory, the Gymnasium and Armory, and the Drill Hall conveniently near. The Cornell University Medical College in the City of New York is located on First Avenue between Twenty-seventh and Twenty-eighth Streets.

The University is composed of the Graduate School (degrees A.M., Ph.D., M.C.E., M.M.E., M.Arch., M.S. in Agr., M.L.D., M.F.), and the following colleges:

The College of Arts and Sciences (degrees A.B., B.Chem.).

The College of Law (degree LL.B.).

The Medical College (degree M.D.).

The New York State Veterinary College (degree D.V.M.).

The New York State College of Agriculture (degree B.S.).

The College of Architecture (degree B.Arch.).

The College of Civil Engineering, including Hydraulic and Sanitary Engineering (degree C.E.).

The Sibley College of Mechanical Engineering and Mechanic Arts, including Electrical, Industrial, and Mining Engineering (degree M.E.).

No student who has satisfied the requirements for any baccalaureate degree, will be recommended for any other baccalaureate degree until he shall have completed at least one year of further residence and of work acceptable to the faculty on whose recommendation the second baccalaureate degree is to be conferred.

REQUIREMENTS FOR ADMISSION

The Graduate School

Graduates of the following colleges of Cornell University, namely, the College of Arts and Sciences, the Medical College, the College of Architecture, the College of Civil Engineering, the Sibley College of Mechanical Engineering, the New York State College of Agriculture, and graduates of other institutions in which the requirements for the first degree are substantially equivalent, are eligible for admission to the Graduate School. In other cases, studies pursued after graduation, and experience gained by professional work or otherwise, are taken into consideration in deciding whether the candidate's preparation as a whole is such as to justify his admission to the Graduate School. Graduates of colleges other than those of Cornell University may be admitted to the Graduate School, but not to immediate candidacy for an advanced degree in cases where their training is regarded as less than one year short of that required for the first degree at Cornell University.

Seniors in the colleges of Cornell University who have completed the work required for the Bachelor's degree may, under certain conditions to be ascertained from the deans of their respective colleges, be admitted to the Graduate School.

Correspondence should be addressed to the Dean of the Graduate School, Cornell University, Ithaca, New York. For further details regarding admission, applicants should consult the Announcement of the Graduate School, requests for which should be addressed to the Secretary of Cornell University, Ithaca, New York.

The Graduate School has exclusive control of all graduate work in Cornell University.

The Medical College

The following classes of candidates are admitted to the Cornell University Medical College:

1. Graduates of approved colleges or scientific schools;
2. Seniors in good standing in approved colleges or scientific schools upon condition that their faculty will permit them to substitute the first year in the Cornell University Medical College for the fourth year of their college course, and will confer upon them the Bachelor's degree upon the satisfactory completion of the year's work;*
3. Persons who give evidence by examinations that they have acquired an equivalent education to that signified by a Bachelor's degree, and training sufficient to enable them to profit by the instruction offered in the Cornell University Medical College.

All candidates for admission to the Cornell University Medical College must have at least such knowledge of physics, inorganic chemistry, and biology as may be obtained in college by a year's work in each of these subjects. For details in regard to approved courses consult the Announcement of the Medical College.

*No student is permitted under this clause to enter the second year of the medical curriculum without the Bachelor's degree obtained after at least three years of undergraduate college work. This clause is intended to provide for those students who, by specially directed or by especially proficient work, accomplish the essential requirements for a baccalaureate degree during three years of college residence.

Of the four years required to obtain the degree of Doctor of Medicine from Cornell University, the first may be taken in Ithaca, or in New York City. The last three years must be taken in New York City.

For more detailed information, a candidate should consult the Announcement of the Medical College, which may be obtained upon application either to the Secretary of the Ithaca Division of the Cornell University Medical College, Ithaca, New York, or to the Secretary of the Cornell University Medical College, First Avenue and Twenty-eighth Street, New York City.

The Undergraduate Courses

All the colleges of Cornell University conferring baccalaureate degrees presuppose, on the part of an applicant for admission, an amount of training equivalent to that gained by four years of successful work in a high school of good standing.

The entrance requirements of these colleges are in many respects similar (see page 11), but special modifications exist and the faculties of the respective colleges may make further modifications at any time to take effect after due notice.

Every applicant for admission to any of the regular undergraduate courses of the University, must file at the Registrar's office either a certificate of good moral character, or, in case he has previously attended some other college or university without graduating from it, a certificate of honorable dismissal from that institution.

Applications for admission to any of the colleges of the University, except the Graduate School and the Medical College, are entertained from the following three classes of persons: (a) those who desire to begin as freshmen, in some college of the University, a regular course of study leading to a degree conferred by that college; (b) those who, having already attended some institution of collegiate rank, desire to enter some college of the University; (c) those who desire to register as special students not candidates for a degree. The conditions of admission for these three classes of persons are separately described on pages 9 and 29.

The regular session in all the colleges of the University, except the Medical College, is divided into two terms. Vacations and holidays are as follows: on Thanksgiving Day, at Christmas, on Founder's Day (January 11,) in the spring (at or near Easter), and on Navy Day (for 1918, on May 25). Degrees are conferred at the Commencement in June, and without formal exercises in February and September. For the first term 1917-18, instruction will begin September 27 and will end January 26; the corresponding dates for the second term are February 11 and June 4. The final examinations at the close of the first term take place between January 28 and February 6; at the close of the second term between June 5 and June 14. Commencement Day in 1918 will be June 19; in 1919, June 18. These dates apply also to the Graduate School. For corresponding dates for the Medical College, consult the special announcement of that college.

The University Summer Session

There are no examinations for admission to the University Summer Session, which is a regular part of the University year, extending over a period of six weeks (in 1917, from July 9 to August 17). Instruction is provided in certain

entrance subjects, thus enabling students preparing to enter the University to make up deficiencies to the extent of one unit in French, German, Spanish, Mathematics, and possibly in a Science. About 150 courses of instruction are given, covering a large amount of regular undergraduate work. University students have thus an opportunity to make up back work, to anticipate work of required courses, and to take subjects for which they have no time during the winter. Attendance through a Summer Session is counted as one-half term of residence. One full university year's work may thus be completed by undergraduates in four summers. Graduate students may, to an extent, as indicated in the announcement from year to year, carry on work towards a Master's degree. Attendance during four summer sessions, together with work done at home during the winter, will satisfy the residence requirements for this degree. Much of the instruction is especially adapted to teachers in all grades of schools. A special Announcement of the Summer Session is published each year in March. Copies may be obtained upon application to the Secretary of the University.

The Summer School in Agriculture

There are no examinations for admission to the six-weeks Summer School in Agriculture, which is held during the same period as the University Summer Session. The primary object of the Summer School in Agriculture is to further agricultural education by aiding those engaged in it. A special announcement may be obtained upon application to the Secretary of the University or to the Secretary of the College of Agriculture.

The Summer Term in Agriculture

The College of Agriculture has established a summer term equivalent to the present fall or spring terms. It does not replace the six-weeks Summer School in Agriculture for teachers and others engaged in educational work, but is in addition to the Summer School. In order to be eligible for admission to the summer term an applicant must have completed the equivalent of the required courses of the freshman and sophomore years in Agriculture as now prescribed. The dates for the summer term of 1917 are June 11 to September 26, inclusive. The regular announcement, giving details of the courses to be offered, may be obtained on application to the Secretary of the University or to the Secretary of the College of Agriculture.

In the Graduate School this summer period constitutes a Third Term which is regarded as equivalent, for purposes of graduate residence, to either of the terms of the academic year.

The Winter Courses in Agriculture

The only requirement for admission to the Winter Courses in Agriculture is that the applicant must be at least eighteen years of age. In order to make the best use of the instruction, a student should have had a good common school education. The Winter Courses extend over a period of twelve weeks, beginning in November and ending about the middle of February. A special Announcement giving details of the work, may be obtained upon application to the Secretary of the University or to the Secretary of the College of Agriculture.

Admission at the Beginning of the Second Term

Applicants who have fully satisfied the entrance requirements of the College of Arts and Sciences may be admitted as freshmen in that college at the beginning of the second term in February, as well as at the beginning of the first term in September. They will be able to make up a satisfactory schedule of work at the beginning of the second term, since freshman classes in the languages, history, mathematics, physics, chemistry, and zoology are begun at that time.

Applicants who have fully satisfied the entrance requirements of the College of Agriculture may be admitted as freshmen in that college at the beginning of the second term in February; they will, however, find it difficult to arrange satisfactory schedules and therefore should, if possible, enter in September.

Students who meet in full the requirements for admission as freshmen in either the four year or five year course in the Colleges of Mechanical Engineering, of Civil Engineering, and of Architecture may enter said colleges at midyear to pursue courses which will be specially outlined to suit each individual case and which will lead to the degree of Mechanical Engineer, Civil Engineer, or Bachelor of Architecture at the end of four and a half years. Those who at this time meet the requirements for admission to the five year course must enter the University classes in such of the mathematical courses required for admission to the four year courses as have not been credited to them.

In order to secure admission at midyear with advanced standing in the regular four year courses in the College of Mechanical Engineering, of Civil Engineering and of Architecture, with the view of graduating in less than four years, the applicant must have attended an institution of collegiate rank and must secure credit for such university courses as will enable him, by attending during the remainder of the college year and (possibly) during the succeeding Summer Session, to substantially complete the year's work scheduled for the class he wishes to enter. (See page 11).

Students may not enter the College of Law, in the three year course, at the beginning of the second term. Applicants for admission to the four year course may be admitted at the beginning of the second term of the first year; but such applicants will be required to attend the sessions of the Summer School during the two succeeding summers, in order to obtain credit for the amount of work in Arts and Sciences which is included in the four year law course.

Students who desire admission at the beginning of the second term must place their certificates and credentials in the hands of the Registrar not later than January 15. For January entrance examinations, see page 12.

ENTRANCE REQUIREMENTS FOR FRESHMEN

Men who desire to begin as freshmen a course leading to a degree in one of the colleges of the University, must be at least sixteen years of age. Women must be at least seventeen years of age. In the College of Law the minimum age for both men and women is, for the four year course, seventeen years; for the three year course, eighteen years.

Every applicant for admission must, in one or more of the four following ways, show that he possesses a satisfactory knowledge of the subjects that are

required for admission to the particular college in which he plans to pursue his studies:

- 1. By passing the required Cornell University Entrance Examinations, see page 12.
- 2. By passing the College Entrance Examination Board Examinations in the required subjects, see page 24.
- 3. By passing the necessary Regents' Examinations (for students who have prepared in New York State), see page 26.
- 4. By presenting an acceptable school certificate, see page 27.

UNIVERSITY ENTRANCE SUBJECTS

The subjects and the maximum and minimum amounts of credit in each that may be offered for admission to the University are:

1a. English 1	1½ unit	8d. English History . . .	½ unit or 1 unit
1b. English 2	1½ unit	9a. Elementary Algebra	1 unit
2a. First Year Greek	1 unit	9b. Intermed. Algebra	½ unit
2b. Second Year Greek	1 unit	9c. Advanced Algebra	½ unit
2c. Third Year Greek	1 unit	9d. Plane Geometry	1 unit
3a. First Year Latin	1 unit	9e. Solid Geometry	½ unit
3b. Second Year Latin	1 unit	9f. Plane Trigonometry	½ unit
3c. Third Year Latin	1 unit	9g. Spher. Trigonometry	½ unit
3d. Fourth Year Latin	1 unit	10. Physics	1 unit
4a. First Year German	1 unit	11. Chemistry	1 unit
4b. Second Year German	1 unit	12. Phys. Geog.	½ unit or 1 unit
4c. Third Year German	1 unit	13. Biology*	1 unit
5a. First Year French	1 unit	14. Botany*	½ unit or 1 unit
5b. Second Year French	1 unit	14a. Zoology*	½ unit or 1 unit
5c. Third Year French	1 unit	15. Bookkeeping** . . .	½ unit or 1 unit
6a. First Year Spanish	1 unit	16. Agriculture (including	
6b. Second Year Spanish	1 unit	home economics, etc.)†	
6c. Third Year Spanish	1 unit	½ unit to 4 units
7a. First Year Italian	1 unit	17. Drawing	½ unit or 1 unit
7b. Second Year Italian	1 unit	18. Manual Training	1 unit
7c. Third Year Italian	1 unit	19.†† {	Any High School subject
8a. Ancient Hist.	½ unit or 1 unit		or subjects not already
8b. Modern Hist.	½ unit or 1 unit		used
8c. Am. His. Civics . . .	½ unit or 1 unit		½ unit or 1 unit

SUBJECTS AND UNITS REQUIRED BY THE COLLEGES

For admission to the Graduate School and the Medical College, applicants should consult the special announcements of the Graduate School and the Medical College respectively.

The subjects in the foregoing list required by the several colleges for admission to the freshman class are indicated in the following table on p. 11.

*If Biology (1 unit) is offered, neither Botany (½ unit) nor Zoology (½ unit) may be counted.
**No part of No. 15 may be counted for entrance to Arts and Sciences except under No. 19: a maximum of one unit in Bookkeeping is allowed by all the other colleges with the exception of the College of Agriculture which permits a maximum of one unit to be counted with the restriction that it cannot be offered in conjunction with more than one of the following subjects, Agriculture, Drawing, Manual Training.
†Agriculture may not be counted for entrance to Arts and Sciences or to Law. An applicant may offer for admission to Agriculture not to exceed four units in vocational subjects under numbers 16, 18, and 19 combined.
††A student may not count under No. 19 work in subjects Nos. 1-18 until he has offered the maximum (e. g. 4 units of Latin; 3 units of English, Greek, German, French, Italian, or Spanish; 1 unit of Physics, Chemistry, or Manual Training) in Nos. 1-18.

ENTRANCE REQUIREMENTS OF THE UNDERGRADUATE COLLEGES

ARTS AND SCIENCES A.B. 4 years		LAW 4 years	LAW 3 years	AGRICUL- TURE 4 years	VETER- INARY 4 years	ARCHITECTURE 4 years 4½ or 5 yr.		CIVIL AND MECH. ENG. 4 years 4½ or 5 yr.	
English, 3	English, 3	English, 3	A diploma or certificate of graduation from a university or college or a certificate that the applicant has met the entrance requirements and satisfactorily completed one year of study in a university or college of approved standing is required for admission to the three year curriculum in Law.	English, 3	English, 3	English, 3	English, 3	English, 3	English, 3
Foreign Languages, 5	French, 3 or German, 3	One Foreign Language, 3		One Foreign Language, 3	One Foreign Language, 3	French, 3 or German, 3	French, 3 or German, 3	One Foreign Language, 3	One Foreign Language, 3
History, 1	History, 1	History, 1		History, 1	History, 1	History, 1 Physics, 1	History, 1	History, 1	History, 1
Plane Geometry, 1	Plane Geometry, 1	Plane Geometry, 1		Plane Geometry, 1	Plane Geometry, 1	Plane Geometry, 1	Plane Geometry, 1	Plane Geometry, 1	Plane Geometry, 1
Elementary Algebra, 1	Elementary Algebra, 1	Elementary Algebra, 1		Elementary Algebra, 1	Elementary Algebra, 1	Elementary Algebra, 1	Elementary Algebra, 1	Elementary Algebra, 1	Elementary Algebra, 1
	Intermed. Algebra, ½			[Solid Geom. and Pl. Trigonometry are not required but are strongly recommended for students intending to take Forestry or Landsc. Art.]	See Note	Intermed. Algebra, ½		Intermed. Algebra, ½	
	Solid Geometry, ½					Solid Geom., ½		Solid Geom., ½	
	Advanced Algebra, ½					Advanced Algebra, ½		Advanced Algebra, ½	
	Plane Trigonometry, ½					Plane Trigonometry, ½		Plane Trigonometry, ½	
Elective, 4	Elective, 4	Elective, 6		Elective, 6	Elective, 6	Elective, 3	Elective, 6	Elective, 4	Elective, 6
TOTAL, 15	TOTAL, 15	TOTAL, 15		TOTAL, 15	TOTAL, 15	TOTAL, 15	TOTAL, 15	TOTAL, 15	TOTAL, 15

Candidates for the degree of Bachelor of Chemistry are advised to include, among their entrance subjects, in addition to the full four units in mathematics, also three units of German and two units of French. Those who have not presented these subjects at admission will be required to take them in the University, which may result in the extension of their period of residence beyond eight terms. For the present, applicants will be admitted to the College of Arts and Sciences as candidates for the degree of Bachelor of Chemistry, upon satisfaction of the entrance requirements for the curriculum leading to the degree of Bachelor of Arts.

For admission to the New York State Veterinary College an applicant must offer a Veterinary Student Certificate issued by the Education Department of the State of New York, Albany, N. Y. This certificate satisfies the entrance requirements in full.

It is strongly recommended that for entrance to Architecture, Civil Engineering, and Mechanical Engineering, at least three of the four elective units be offered in language and history.

French or German is preferred for the three foreign language units required by the College of Civil Engineering, the College of Mechanical Engineering, the College of Agriculture, and the Veterinary College.

In connection with the foreign language requirements, the following restrictions should be noted:

1. In those colleges where the requirement is 3 units, all of these units must be in a single language. Any number of elective units in a second language will be accepted. If the applicant offers at least 2 units in the second language, any number of units in a third language will be accepted.

2. In the College of Arts and Sciences where the requirement is 5 units, at least 3 of these units must be in one language and at least 2 units in a second language. Any number of elective units in a third language will be accepted.

1. CORNELL UNIVERSITY ENTRANCE EXAMINATIONS

Examinations in all subjects required for admission to the University are held in Ithaca and in all subjects except Drawing, Manual Training, and certain subjects in Agriculture and Home Economics, in New York City, First Avenue and 28th Street, in September, at the beginning of the first term (in 1917, September 14-19). A fee of \$1 for each subject, with a maximum charge of \$5 for all subjects, will be charged to all candidates who take these examinations in New York City; the fee must be paid a second time in the case of candidates who repeat the examinations. Every entrance subject shown in each line of the list on page 10, is for the purposes of this fee, a subject. This fee may be paid at the time of the examination in New York City.

Permits to take the examinations must be secured from the Registrar in Ithaca. The permits show the exact dates and hours of the examinations, and should be obtained at least twenty-four hours before the date of the first examination to be taken. The results of the examinations will be reported to applicants who file stamped and addressed envelopes in accordance with the directions printed on the permits.

No examination of candidates for admission will be held by the University at any other times or places, except that, on application made to the Registrar between January 1 and 15 in any year, entrance examinations in any of the University entrance subjects may be arranged to be held in Ithaca on or about January 25 of that year. A fee of \$1.00 for each subject to be taken with a maximum charge of \$5.00 for five or more subjects, will be charged all candidates applying prior to and including January 15. In case of applicants later than January 15 the Registrar may issue permits wherever possible, in which case double fees will be charged. The object of these January entrance examinations is to permit candidates who complete their preparation at mid-year to enter the University immediately. They make possible at the beginning of the second term the matriculation of candidates who on account of slight shortages were unable to enter the University in the preceding September.

Specimen copies of the September examination papers may be had on application to the Secretary of the University.

A candidate may take all the entrance examinations in the same year, or he may divide them among two or three successive years.

Marks. The following is the marking system employed in the University: A, B, C, D, P, or 100-60 a pass; E or 59-41 a condition; F or 40-0 a failure.

SUBJECT MATTER OF THE CORNELL ENTRANCE EXAMINATIONS

ENGLISH

The examination is intended to test the candidate's training in written expression and his knowledge of the books required to be read. The examiner will consider particularly the following essentials: spelling, punctuation, and the use of capital letters; grammatical correctness; the idiomatic use of words; and the structure of sentences and paragraphs; good sense and intellectual independence. However accurate in subject matter, no paper will be considered satisfactory if seriously defective in punctuation, spelling, or other essentials of good usage.

The examination is divided into two parts: 1. Grammar and Composition (two hours); 2. Literature (two hours).

English 1: Grammar and Composition (1½ Units)

Compositions on subjects assumed to be within the candidate's general knowledge and experience; questions involving elementary grammatical relations; correction of specimens of faulty English.

English 2: Literature (1½ Units)

Questions designed to test the candidate's general knowledge of ten of the books selected from the A list; questions designed to test his thorough study of four of the books selected from the B list.

A. List of books for general reading, 1915-19.

Substitutes chosen by the candidate and approved by the Department of English may be offered.

Group I: Classics in Translation (two to be selected by the candidate)

The Old Testament, comprising at least the chief narrative episodes in Genesis, Exodus, Joshua, Judges, Samuel, Kings, and Daniel, together with the books of Ruth and Esther; the Odyssey, with the omission, if desired, of Books I, II, III, IV, V, XV, XVI, XVII; the Iliad, with the omission, if desired, of Books XI, XIII, XIV, XV, XVII, XXI; the Aeneid; the Odyssey, Iliad, and Aeneid should be read in English translations of recognized literary excellence.

For any selection from this group a selection from any other group may be substituted.

Group II: Shakespeare (two to be selected by the candidate)

Midsummer Night's Dream; Merchant of Venice; As You Like It; Twelfth Night; The Tempest; Romeo and Juliet; King John; Richard II; Richard III; Henry V; Coriolanus; Julius Caesar; Macbeth; Hamlet (if not chosen for study under B.)

Group III: Prose Fiction (two to be selected by the candidate)

Malory's Morte d'Arthur (about 100 pages); Bunyan's Pilgrim's Progress, Part I; Swift's Gulliver's Travels (voyages to Lilliput and to Brobdingnag); Defoe's Robinson Crusoe, Part I; Goldsmith's Vicar of Wakefield; Frances Burney's Evelina; Scott's Novels, any one; Jane Austen's Novels, any one; Maria Edgeworth's Castle Rackrent, or The Absentee; Dickens' Novels, any

one; Thackeray's Novels, any one; George Eliot's Novels, any one; Mrs. Gaskell's *Cranford*; Kingsley's *Westward Ho!* or *Hereward the Wake*; Reade's *The Cloister and the Hearth*; Blackmore's *Lorna Doone*; Hughes' *Tom Brown's School days*; Stevenson's *Treasure Island*, or *Kidnapped*, or *Master of Ballantrae*; Cooper's Novels, any one; Poe's *Selected Tales*; Hawthorne's *The House of the Seven Gables*, or *Twice Told Tales*, or *Mosses from an Old Manse*; a collection of *Short Stories* by various standard writers.

Group IV: Essays, Biography, etc. (two to be selected by the candidate)

Addison and Steele's *The Sir Roger de Coverley Papers*, or *Selections from the Tatler and Spectator* (about 200 pages); Boswell's *Selections from the Life of Johnson* (about 200 pages); Franklin's *Autobiography*; Irving's *Selections from the Sketch Book* (about 200 pages), or *Life of Goldsmith*; Southey's *Life of Nelson*; Lamb's *Selections from the Essays of Elia* (about 100 pages); Lockhart's *Selections from the Life of Scott* (about 200 pages); Thackeray's *Lectures on Swift, Addison, and Steele in the English Humorists*; Macaulay: any one of the following essays, *Lord Clive*, *Warren Hastings*, *Milton*, *Addison*, *Goldsmith*, *Frederic the Great*, *Madame d'Arblay*; Trevelyan's *Selections from the Life of Macaulay* (about 200 pages); Ruskin's *Sesame and Lilies*, or *Selections* (about 150 pages); Dana's *Two Years before the Mast*; Lincoln's *Selections*, including at least the two *Inaugurals*, the *Speeches in Independence Hall* and at *Gettysburg*, the *Last Public Address*, the *Letter to Horace Greeley*; together with a brief memoir or estimate of Lincoln; Parkman's *The Oregon Trail*; Thoreau's *Walden*; Lowell's *Selected Essays* (about 150 pages); Holmes' *The Autocrat of the Breakfast Table*; Stevenson's *An Inland Voyage and Travels with a Donkey*; Huxley's *Autobiography and Selections from Lay Sermons*, including the addresses on *Improving Natural Knowledge*, *A Liberal Education*, and *A Piece of Chalk*; a collection of *Essays* by Bacon, Lamb, DeQuincy, Hazlitt, Emerson, and later writers; a collection of *Letters* by various standard writers.

Group V: Poetry (two to be selected by the candidate)

Palgrave's *Golden Treasury* (First Series), Books II and III, with special attention to Dryden, Collins, Gray, Cowper, and Burns; Palgrave's *Golden Treasury* (First Series), Books IV, with special attention to Wordsworth, Keats, and Shelley (if not chosen for study under B); Goldsmith's *The Traveller* and *The Deserted Village*; Pope's *The Rape of the Lock*; a collection of English and Scottish Ballads, as for example, some Robin Hood ballads, *The Battle of Otterburn*, *King Estmere*, *Young Beichan*, *Bewick* and *Grahame*, *Sir Patrick Spens*, and a selection from later ballads; Coleridge's *The Ancient Mariner*, *Christabel*, and *Kubla Khan*; Byron's *Childe Harold*, Canto III or IV, and *The Prisoner of Chillon*; Scott's *The Lady of the Lake*, or *Marmion*; Macaulay's *The Lays of Ancient Rome*, *The Battle of Naseby*, *The Armada*, *Ivry*; Tennyson's *The Princess*, or *Gareth and Lynette*, *Lancelot and Elaine*, and *The Passing of Arthur*; Browning's *Cavalier Tunes*, *The Lost Leader*, *How They Brought the Good News from Ghent to Aix*, *Home Thoughts from Abroad*, *Home Thoughts from the Sea*, *Incident of the French Camp*, *Hervé Riel*, *Pheidippides*, *My Last Duchess*, *Up at a Villa—Down in the City*, *The Italian in England*, *The Patriot*, *The Pied Piper*, "De Gustibus"—, *Instans Tyrannus*; Arnold's *Sohrab and*

Rustum, and The Forsaken Merman; selections from American Poetry, with special attention to Poe, Lowell, Longfellow, and Whittier.

B. List of books for study, 1915-19.

Substitutes chosen by the candidate and approved by the Department of English may be offered.

Group I: Drama (one to be selected by the candidate)

Shakespeare's: Julius Caesar, Macbeth, Hamlet.

Group II: Poetry (one to be selected by the candidate)

Milton's L'Allegro, Il Penseroso, and either Comus or Lycidas; Tennyson's The Coming of Arthur, The Holy Grail, and The Passing of Arthur; the selections from Wordsworth, Keats, and Shelley in Book IV of Palgrave's Golden Treasury (First Series).

Group III: Oratory (one to be selected)

Burke's Speech on Conciliation with America; Macaulay's Two Speeches on Copyright and Lincoln's Speech at Cooper Union; Washington's Farewell Address and Webster's First Bunker Hill Oration.

Group IV: Essays (one to be selected)

Carlyle's Essay on Burns, with a selection from Burn's Poems; Macaulay's Life of Johnson; Emerson's Essay on Manners.

REQUIREMENTS AFTER 1919

In 1920-2, candidates will have the option of taking either of two examinations,—a comprehensive examination based upon books chosen at the discretion of the schools, or a restricted examination based upon books prescribed by the Conference on Entrance English Requirements. The restricted list names for general reading five groups of books,—classics in translation, drama, prose fiction, essays, poetry,—two books to be selected by the candidate from each group; and for close study four groups,—drama, poetry, oratory, essays,—one book to be selected by the candidate from each group. Further details will be given in a forthcoming number of this Circular. The full lists for 1920, 1921, and 1922 may be obtained from Headmaster Wilson Farrand, New Academy, Newark, N. J. Enclose four cents in stamps.

GREEK

The examination in Second Year Greek covers the examination in First Year Greek.

2a. First Year Greek (1 unit)

The examination assumes that the student has studied the subject intelligently for five periods a week during one year.

2b. Second Year Greek (1 unit)

The examination assumes that the student has studied the subject intelligently for five periods a week during two years and has read the first four books of Xenophon's Anabasis.

2c. Third Year Greek (1 Unit)

The examination assumes that the student has studied the subject intelligently for five periods a week during three years, and has read the first three books of Homer's Iliad (omitting II, 494-end), devoting necessary attention to Homeric constructions, forms, and prosody. The candidate will be tested also on translation of English into Greek, principally of detached sentences based on the first two books of the Anabasis.

LATIN**3a. First Year Latin (1 Unit)**

The examination assumes that the student has studied the subject intelligently for five periods a week during one year.

3b. Second Year Latin (1 Unit)

The examination assumes that the student has studied the subject intelligently for five periods a week during two years, and that he has read four books of Cæsar's Gallic War.

3c. Third Year Latin (1 Unit)

The examination assumes that the student has studied the subject intelligently for five periods a week during three years, and that he has read six orations of Cicero. The candidate will be tested also on translation into Latin of detached sentences and very easy continuous prose based on Cæsar and Cicero.

3d. Fourth Year Latin (1 Unit)

The examination assumes that the student has studied the subject intelligently for five periods a week during four years, and that he has read the first six books of Virgil's Aeneid, devoting necessary attention to prosody, versification in general, and the dactylic hexameter.

GERMAN

The examination in Second Year German covers the examination in First Year German; the examination in Third Year German covers the examinations in First Year German and Second Year German.

4a. First Year German (1 Unit)

The examination assumes that the student has studied the subject intelligently for five periods a week during one year.

4b. Second Year German (1 Unit)

The examination assumes that the student has studied the subject intelligently for five periods a week during two years.

4c. Third Year German (1 Unit)

The examination assumes that the student has studied the subject intelligently for five periods a week during three years.

For more specific recommendations as to the nature and character of the three year's preparatory work in German, applicants are referred to the Modern

Language Syllabus published by the Education Department of the State of New York (Albany), and the Samples of Entrance and Scholarship Examination Papers, published by Cornell University.

FRENCH

The examination in Second Year French covers the examination in First Year French; the examination in Third Year French covers the examination in First Year French and Second Year French. The preparation in French should include pronunciation, composition, and translation. The following methods are suggested in order to meet the requirements for the oral and aural test as recommended by the Association of Modern Language Teachers of the Middle States and Maryland: dictation, simple conversation based upon material set for translation, written and oral reproduction in French of French passages read by the teacher, and memorizing of short anecdotes. The student should be taught French as a living language.

5a. First Year French (1 Unit)

The examination assumes that the student has studied the subject intelligently for five periods a week during one year.

5b. Second Year French (1 Unit)

The examinations assume that the student has studied the subject intelligently for five periods a week during two years.

5c. Third Year French (1 Unit)

The examination assumes that the student has studied the subject intelligently for five periods a week during three years.

For more specific recommendations as to the nature and character of the three years' preparatory work in French, including texts to be read, applicants are referred to the publications of the College Entrance Examination Board.

SPANISH

The examination in Second Year Spanish covers the examination in First Year Spanish; the examination in Third Year Spanish covers the examination in First Year Spanish and Second Year Spanish. The preparation in Spanish should include pronunciation, composition, and translation. The following methods are suggested in order to meet the requirements for the oral and aural test as recommended by the Association of Modern Language Teachers of the Middle States and Maryland: dictation, simple conversation based upon material set for translation, written and oral reproduction in Spanish of Spanish passages read by the teacher, and memorizing of Spanish proverbs and verses. The student should be taught Spanish as a living language.

6a. First Year Spanish (1 Unit)

The examination assumes that the student has studied the subject intelligently for five periods a week during one year.

CORNELL UNIVERSITY

6b. Second Year Spanish (1 Unit)

The examination assumes that the student has studied the subject intelligently for five periods a week during two years.

6c. Third Year Spanish (1 Unit)

The examination assumes that the student has studied the subject intelligently for five periods a week during three years.

For more specific recommendations as to the nature and character of the three years' preparatory work in Spanish, including texts to be read, applicants are referred to the publications of the College Entrance Examination Board.

ITALIAN

The examination in Second Year Italian covers the examination in First Year Italian; the examination in Third Year Italian covers the examinations in First Year Italian and Second Year Italian. The attention of teachers is called to the report of the Committee of Twelve of the Modern Language Association of America, published by D. C. Heath & Company, Boston.

7a. First Year Italian (1 Unit)

The examination assumes that the student has studied the subject intelligently for five periods a week during one year.

7b. Second Year Italian (1 Unit)

The examination assumes that the student has studied the subject intelligently for five periods a week during two years.

7c. Third Year Italian (1 Unit)

The examination assumes that the student has studied the subject intelligently for five periods a week during three years.

HISTORY

The examinations in history will be so framed as to require comparison and the use of judgment on the pupil's part, rather than the mere use of memory. The examinations will presuppose the use of good textbooks, collateral reading, and practice in written work. Geographical knowledge will be tested by direct questions or by requiring the location of places and movements on an outline map.

8a. Ancient History ($\frac{1}{2}$ Unit or 1 Unit)

For a full unit of credit, the subject of the examination will be ancient history with special attention to Greek and Roman history, but including also the outlines of ancient oriental history and of early medieval history to the death of Charles the Great (814 A. D.). For a half unit of credit, applicants may be examined on either of the following: a. Greek history to the death of Alexander the Great; b. Roman history to 476 A. D.

8b. Modern History ($\frac{1}{2}$ Unit or 1 Unit)

For a full unit of credit, the subject of the examination will be medieval and modern European history, from the death of Charles the Great to the present time. For a half unit of credit, applicants may be examined on either of the following: a. medieval history; b. modern European history.

8c. American History and Civil Government ($\frac{1}{2}$ Unit or 1 Unit)

American history from the European discovery of the new world, with especial attention in the seventeenth and eighteenth centuries, to the British Empire in America. After the Revolution, the history and civil government of the United States only need be studied.

8d. English History ($\frac{1}{2}$ Unit or 1 Unit)

English history, from 55 B. C. to our own day.

MATHEMATICS

The requirements in mathematics are substantially as defined by the College Entrance Examination Board.

For students who expect to continue their mathematical studies especially in the engineering colleges, it is not sufficient to have once known the preparatory mathematical subjects. The student must know them at the time he begins his work in the University. It is therefore very important that these subjects be carefully reviewed just prior to entrance.

A knowledge of the metric system of weights and measures is assumed in all the examinations in mathematics.

9a. Elementary Algebra (1 Unit)

The examination will require a thorough knowledge of the four fundamental operations: factoring, including the determination of the highest common factor and the solution of equations by factoring; fractions, including complex fractions, and an elementary treatment of ratio and proportion; the binomial theorem for positive integral exponents (without proof); radicals, including the extraction of the square root of polynomials and of numbers; the solution of equations of the first degree (numerical and literal, integral and fractional) involving one or more unknown numbers; easy quadratic equations, solved both by factoring and by completing the square; and simple cases of simultaneous equations one of which is quadratic.

Emphasis is laid upon translating verbally stated problems into equations, solving these, and interpreting the results.

9b. Intermediate Algebra ($\frac{1}{2}$ Unit)

The highest common factor by division; surds and imaginary numbers, including the square root of binomial surds and the cube root of polynomials and of numbers; the theory of quadratic equations, including maximum and minimum; the solution of equations and problems (in one or more unknown numbers) which can be made to depend upon quadratics; the theory of exponents;

the proof of the binominal theorem for positive integral exponents; graphical representation and solution of equations; and ratio, proportion, variation, and the progressions.

9c. Advanced Algebra ($\frac{1}{2}$ Unit)

The examination will require such knowledge as may be gained from one of the better text books on this subject, including, in addition to a thorough review of elementary algebra, permutations and combinations, irrational and complex numbers with graphical representation of sums and differences of the latter, and an elementary treatment of determinants including the use of minors and the solution of linear equations.

The solution of numerical equations of higher degree, and so much of the theory of equations as is necessary for their treatment, including graphical methods, Descartes's rule of signs and Horner's method, but not Sturm's functions or multiple roots.

Special attention should be paid, throughout the course, to applications under each topic, and emphasis should be laid upon accuracy and precision.

9d. Plane Geometry (1 Unit)

The usual theorems and constructions contained in the better text books on this subject, including the general properties of plane rectilinear figures, the circle and the measurement of angles, similar polygons, areas, regular polygons, the measurement of the circle, the solution of original exercises, including loci problems, and the mensuration of lines and plane surfaces.

9e. Solid Geometry ($\frac{1}{2}$ Unit)

The usual theorems and constructions contained in the better textbook on this subject, including the relations of planes and lines in space; the properties and measurement of prisms, pyramids, cylinders, and cones; the sphere and the spherical triangle; the solution of original exercises including loci problems, and the mensuration of surfaces and solids.

9f. Plane Trigonometry ($\frac{1}{2}$ Unit)

The definitions and relations of the six trigonometric functions as ratios; circular measurement of angles; proofs of the principal formulas, especially those for the sine, cosine, and tangent of the sum or difference of any two angles whatever, and of double angles and half angles; also the product expressions for the sum of two sines or of two cosines, etc.; the transformation of trigonometric expressions by means of these formulas, the use of inverse functions, the solution of trigonometric equations of simple character, the theory and use of logarithms (not including logarithmic series), and the solution of right and oblique triangles, together with simple applications.

9g. Spherical Trigonometry ($\frac{1}{2}$ Unit)

The examination assumes that the student has studied the subject intelligently for five periods a week during a half-year.

10. PHYSICS (1 Unit)

The examination in physics assumes that the student has completed a course in school of at least five hours a week for one year, not less than half of which time should have been devoted to individual laboratory practice, mainly quantitative in nature. He should be able to solve simple numerical problems involving elementary principles. No special outline and no arbitrary list of experiments is prescribed. It is expected that the work will be fairly well distributed among the various topics and that it will not differ to any considerable extent from the requirements of the College Entrance Examination Board.

11. CHEMISTRY (1 Unit)

The examination in chemistry assumes that the student has completed a full year's course in this subject. This course should include lecture table demonstrations, recitations from a suitable textbook, and individual laboratory work comprising at least forty exercises (eighty actual hours).

The instruction should be thorough rather than comprehensive, and to this end, the ground covered should be restricted to:

(a) The study of the preparation and properties of the following elements: hydrogen, oxygen, nitrogen, chlorine, bromine, iodine, carbon, sulphur, silicon, phosphorus, sodium, calcium, copper, aluminum, and iron; the preparation and properties of the more important compounds of these elements; the consideration of certain important topics, such as the atmosphere, combustion, acids, bases, salts, oxidation, reduction, crystallization, nascent state, catalysis, electrolysis, symbols, formulas, equations, valency, solution, and the manufacture of illuminating gas.

Only such commercial processes as illustrate fundamental principles should be considered;

(b) A careful and thorough study of the important laws and principles pertaining to the following subjects: combining proportions by weight and volume; variation of gas volumes with changes in temperature or pressure; conservation of matter and energy; structure of matter (atomic theory). It is unwise to accord the subjects mass action, equilibrium, and ionization more than mere mention in an elementary course. Moreover, the instruction should not be extended to cover the elements of qualitative analysis, for the time at the disposal of the high school teacher is usually no more than sufficient to cover the field of elementary inorganic chemistry.

The student should keep a notebook record of his laboratory experiments and this should be written up in the laboratory at the time the experiments are performed.

12. PHYSICAL GEOGRAPHY ($\frac{1}{2}$ Unit or 1 Unit)

The ground covered in the examination on textbook work is essentially that outlined by the College Entrance Examination Board, the principal topics being the earth as a planet, the ocean, the atmosphere, and the lands, as treated in the more modern standard textbooks on physical geography. The emphasis of the instruction in the preparatory school should have been on the relation of human life to physiographic conditions.

Some work with books of reference is assumed to have been done in the preparatory school, and the examination may test the student with reference

thereto; but a certificate of the amount of such work, signed by the teacher, will be taken as evidence and will be considered as a part of the examination. No definite list of reference books is prescribed. In general it may be said, however, that books or papers relating to the physiography of the region where the study is carried on, or those relating to phenomena illustrated in that region, should certainly be included. The standard textbooks give ample references to suitable books and papers bearing on the various physiographic provinces and phenomena of the country.

Two periods a week for an entire year should have been devoted to laboratory and field work. The laboratory work should be divided between the study of the atmosphere and the study of the land. The student should be familiar with weather maps and topographic maps, and be able to interpret them. He should be able to tell what physiographic forms are represented on typical maps. The student should do enough field work to understand the physiography of the region in which he studies. A notebook record of the laboratory and field work should be carefully kept.

For further suggestions concerning laboratory work, the Syllabus of the College Entrance Examination Board, the Regents' Syllabus for the Schools of New York State, and the Guide for Laboratory Geography Teaching, The Macmillan Company, New York City, may be consulted.

13. BIOLOGY (1 Unit)

The examination assumes a knowledge on the part of the student that should be gained by the intelligent study of the subject for five periods a week during a year. A large part of this time should have been devoted to laboratory practice. Laboratory notes and drawings should be carefully made throughout the course.

14. BOTANY ($\frac{1}{2}$ Unit or 1 Unit)

The examination assumes a knowledge of the general laws and fundamental principles of plant nutrition, assimilation, and growth, as exemplified by plants chosen from the different groups, as well as of the general comparative morphology and the broader relationship of plants.

The following synopsis will suggest the topics of preparatory study: the general fundamental principles of plant physiology; general morphology, including form, methods of reproduction, propagation, etc., of selected representatives of the algae, fungi, liverworts, mosses, ferns, and seed plants; special morphology of the higher plants.

14a. ZOOLOGY ($\frac{1}{2}$ Unit or 1 Unit)

The examination assumes a knowledge on the part of the student that should be gained by the intelligent study of the subject for five hours a week during a half year or one year. The greater part of this time should have been devoted to laboratory practice in the observation of living forms, and to dissection. Laboratory notes and drawings should be carefully made throughout the course.

15. BOOKKEEPING ($\frac{1}{2}$ Unit or 1 Unit)

The examination will be based: (a) on the use of the Journal, Cash Book, Purchase Book, Sales Book, and Ledger; (b) on the preparation of financial and

profit and loss statements; (c) on the fundamental theory of double entry bookkeeping especially the analysis of rules of debit and credit and the general classification of accounts.

16. AGRICULTURE, (including home economics, etc., $\frac{1}{2}$ Unit to 4 Units)

The examinations will be based, in general, on the courses in farm mechanics, poultry husbandry, soils and fertilizers, farm crops, animal husbandry, including dairying, fruit growing, farm management, and home-making subjects, as approved by the University of the State of New York for high schools. Separate examinations, held only in Ithaca, are set on each of the above subjects on request. In addition, a general examination covering all of the above subjects will be given both in Ithaca and in New York City, but credit will not be given for both general and special examinations. A value of $\frac{1}{2}$ or 1 unit, will be offered for the present.

17. DRAWING ($\frac{1}{2}$ Unit or 1 Unit)

The entrance requirement in drawing includes the drawing of simple, plane, and solid geometrical figures, simple still life and groups or pieces of machinery, and a fair knowledge of the rules of perspective and of light and shade as applied in freehand sketching. The preparation may also include the drawing of simple pieces of architectural ornament, decoration, and simple plant forms, etc. This requirement represents about 300 hours of actual work (which may be entirely freehand drawing, entirely mechanical drawing, or part freehand and part mechanical) for the credit of 1 unit, or about 150 hours for the half unit.

A candidate taking the examination must present samples of his work and a teacher's statement showing amount of time and degree of proficiency.

18. MANUAL TRAINING (1 Unit)

Examinations will be offered in woodworking, forging, foundry work, and machine work. To satisfy the entrance requirement the applicant must have performed not less than 300 hours of actual work in the subjects in which the examination is taken. Candidates must present a statement of the time actually spent in the work and of the proficiency attained therein.

19. OTHER HIGH SCHOOL SUBJECTS ($\frac{1}{2}$ Unit or 1 Unit)

In addition to the subjects enumerated above, numbers 1-18, a student may offer for entrance credit not less than one-half unit nor more than one unit in any subject or subjects not already used. This may consist of additional work in a subject for which he has already received the maximum credit allowed,—as, for instance, a fourth year of German. It may also be made up of work in subjects not included under numbers 1-18, as, for example, business law. The work offered under this provision must be regular high school work, recognized in the curriculum, and it must have been tested by the regular examinations in the school itself. The University does not set special examinations in subjects offered under this heading.

2. COLLEGE ENTRANCE EXAMINATION BOARD EXAMINATIONS

The examinations of the College Entrance Examination Board, held at Ithaca and elsewhere in June of each year, are accepted as the full equivalents of the Cornell University Entrance Examinations in the corresponding subjects.

The following table shows the Cornell University entrance subjects with the equivalent subjects of the College Entrance Examination Board.

Cornell University Entrance Subjects	Equivalent College Entrance Board Subjects
1a. English 1.	English 1.
1b. English 2.	English 2.
2a. First Year Greek.	Greek A, 1 and 2.
2b. Second Year Greek.	Greek B.
2c. Third Year Greek.	Greek C and F.
3a. First Year Latin.	
3b. Second Year Latin.	Latin 3 = 2 units.
3c. Third Year Latin.	Latin, 1, 2, 4 = 3 units.
3d. Fourth Year Latin.	Latin, 1 2, 4, 5 = 4 units.
4a. First Year German.	{ German A = 2 units.
4b. Second Year German.	
4c. Third Year German.	German B.
5a. First Year French.	{ French A = 2 units.
5b. Second Year French.	
5c. Third Year French.	French B.
6a. First Year Spanish.	{ Spanish = 2 units.
6b. Second Year Spanish.	
6c. Third Year Spanish.	
7a. First Year Italian.	
7b. Second Year Italian.	
7c. Third Year Italian.	
8a. Ancient History.	History A.
8b. Modern History.	Mediaeval and Modern History.
8c. Amer. History, Civics.	History D.
8d. English History.	History C.
9a. Elementary Algebra.	Mathematics A, 1.
9b. Intermed. Algebra.	Mathematics A, 2.
9c. Advanced Algebra.	Mathematics B.
9d. Plane Geometry.	Mathematics C.
9e. Solid Geometry.	Mathematics D.
9f. Plane Trigonometry.	Mathematics E.
9g. Spher. Trigonometry.	
10. Physics.	Physics.
11. Chemistry.	Chemistry.
12. Physical Geography	Geography.
13. Biology.	Biology.
14. Botany.	Botany.
14a. Zoology.	Zoology.
15. Bookkeeping.	
16. Agriculture (including home economics, etc.)	
17. Drawing	Drawing.
18. Manual Training.	
19. Any High School Subject or Subjects not already used.	

All certificates of the College Entrance Examination Board should be sent by mail to the Registrar of Cornell University, Ithaca, New York, as early as possible,

in the summer before the applicant intends to enter. To insure consideration they should reach him not later than the first of September.

In connection with the examination in Mechanical Drawing (but not that in Freehand Drawing) the submission of a certified set of plates is required. They should be sent by mail or express to the Secretary of the College Entrance Examination Board as early as possible in advance of the examination. A blank form indicating the character of the certificate required may be obtained from the Secretary upon application.

The College Entrance Examination Board does not require or receive notebooks.

The examinations of the College Entrance Examination Board will be held at Ithaca, and at various other places, June 18-23, 1917; June 19-22, 1918. A list of places at which the examinations will be held will be published about March 1, 1917 by the Secretary of the Board. Requests that the examinations be held at particular points, to receive proper consideration, should be submitted to him not later than February 1, 1917.

The examination fee at points in the United States and Canada is five dollars; at points outside of the United States and Canada, fifteen dollars, for each candidate examined. This fee should be remitted by postal order, express order, or draft on New York to the order of the College Entrance Examination Board.

Each candidate who desires to take the examinations of the Board must make application to its Secretary upon a blank to be obtained gratis from him. Applications for examinations at points in the United States on or east of the Mississippi River must reach the Secretary of the Board not later than Monday, June 4, 1917; June 3, 1918; at other points in the United States and Canada, not later than May 28, 1917; May 27, 1918; at points outside of the United States and Canada, not later than May 14, 1917; May 13, 1918.

Applications received later than the prescribed dates will be accepted when it is possible to arrange for the examination of the candidates, but only upon payment of five dollars in addition to the usual examination fee. Candidates who file belated applications do so at their own risk.

When the candidate has failed to obtain the required blank form of application for examination the usual examination fee will be accepted if the fee arrive not later than the specified date accompanied by a memorandum containing the name and address of the candidate, the examination centre at which he wishes to present himself, and a list of all the subjects in which he may have occasion to take the Board's examinations.

The constitution of the Board and detailed definitions of the requirements in each subject in which the Board holds examinations, together with lists of experiments in the natural sciences, are given in a circular of information published by the Board each year about the first of December. A single copy will be sent to any teacher without charge. In general, however, a charge of ten cents, which may be remitted in postage stamps, will be made for a copy of the document.

Teachers, parents, and candidates for examinations who desire more specific information concerning the work of the Board, as well as those who wish to procure blank forms of application for examination are requested to address the Secretary of the College Entrance Examination Board, 431 West 117 Street, New York City.

3. ENTRANCE BY REGENTS' EXAMINATIONS

The Regents' examinations of the Education Department of the State of New York are accepted as the full equivalents of the Cornell University Entrance Examinations in the corresponding subjects.

All Regents' credentials should be sent by mail to the Registrar of Cornell University, Ithaca, New York, as early as possible in the summer before the applicant intends to enter. To insure consideration, they should reach him not later than the first of September.

The following table shows the Cornell University entrance subjects with the corresponding Regents' equivalents:

Cornell University Entrance Subjects	Regents' Equivalents
1a. English 1.	First and Second Year English.
1b. English 2.	Third and Fourth Year English.
2a. First Year Greek.	First Year Greek.
2b. Second Year Greek.	Second Year Greek or Greek Grammar and Xenophon.
2c. Third Year Greek.	Third Year Greek or Greek Composition and Homer.
3a. First Year Latin.	First Year Latin.
3b. Second Year Latin.	Second Year Latin or Latin Grammar and Cæsar.
3c. Third Year Latin.	Third Year Latin or Latin Composition and Cicero.
3d. Fourth Year Latin.	Fourth Year Latin or Virgil.
4a. First Year German.	First Year German.
4b. Second Year German.	Second Year German.
4c. Third Year German.	Third Year German.
5a. First Year French.	First Year French.
5b. Second Year French.	Second Year French.
5c. Third Year French.	Third Year French.
6a. First Year Spanish.	First Year Spanish.
6b. Second Year Spanish.	Second Year Spanish.
6c. Third Year Spanish.	Third Year Spanish.
7a. First Year Italian.	First Year Italian.
7b. Second Year Italian.	Second Year Italian.
7c. Third Year Italian.	
8a. Ancient History.	Ancient History 3-5 counts = $\frac{1}{2}$ -1 unit.
8b. Modern History.	Modern History 3-6 counts = $\frac{1}{2}$ -1 unit.
8c. Am. History, Civics.	American History and Civics 5 counts = 1 unit.
8d. English History.	History of Great Britain and Ireland 3-5 counts = $\frac{1}{2}$ -1 unit.
9a. Elementary Algebra.	Elementary Algebra.
9b. Intermed. Algebra.	Intermediate Algebra.
9c. Advanced Algebra.	Advanced Algebra.
9d. Plane Geometry.	Plane Geometry.
9e. Solid Geometry.	Solid Geometry.
9f. Plane Trigonometry.	Plane Trigonometry.
9g. Spher. Trigonometry.	Special Trigonometry.
10. Physics.	Physics 5 counts.
11. Chemistry.	Chemistry 5 counts.
12. Physical Geography.	Physical Geography 5 counts.
13. Biology.	Biology 5 (Physiology $2\frac{1}{2}$, with Bot $2\frac{1}{2}$ or Zool. $2\frac{1}{2}$).
14. Botany.	Botany $2\frac{1}{2}$ -5 counts = $\frac{1}{2}$ -1 unit.

Cornell University Entrance Subjects

Regents' Equivalents

- | | |
|------------------------------------------------------------------|---------------------------------------------------------------|
| 14a. Zoology. | Zoology, $2\frac{1}{2}$ -5 counts = $\frac{1}{2}$ -1 unit. |
| 15. Bookkeeping. | Bookkeeping $2\frac{1}{2}$ -5 counts = $\frac{1}{2}$ -1 unit. |
| 16. Agriculture (including home economics, etc.) | Agriculture $2\frac{1}{2}$ -5 counts = $\frac{1}{2}$ -1 unit. |
| 17. Drawing. | Drawing 3-6 counts = $\frac{1}{2}$ -1 unit |
| 18. Manual Training. | Manual Training 6 counts. |
| 19. { Any High School Subject or
{ Subjects not already used. | Regents' counts = $2\frac{1}{2}$ -5. |

The officially signed certificates or pass-cards (even for single subjects) issued by the Department of Education of the State of New York for passing Regents examinations are accepted in place of examinations in all the subjects required for entrance which are covered by such credentials.

The Arts College Entrance Diploma or the Science College Entrance Diploma satisfies in full the entrance requirements for the four year courses in Arts, Law, and Agriculture, and for the $4\frac{1}{2}$ and 5 year courses in Architecture and Civil and Mechanical Engineering.

The Arts College Entrance Diploma or the Science College Entrance Diploma satisfies in full the entrance requirements for the four year courses in Mechanical and Civil Engineering provided the four entrance units required in mathematics are covered by the diploma or otherwise satisfied.

The Arts College Entrance Diploma and the Science College Entrance Diploma satisfies in full the entrance requirements for the four year course in Architecture provided the four entrance units required in Mathematics, one in Physics, and at least two in either French or German are covered by the diploma or otherwise satisfied.

Notebooks and teachers' statements are not in general required and should not be sent unless specifically asked for in an individual case.

Do not infer that credentials will be accepted. Send credentials at once. Do not fail to appear at the examination if credentials have not at the date of the examination been accepted. Special entrance examinations will not be given for any reason.

The Department of Education, Albany, N. Y., will upon request issue to any student a statement showing all subjects passed to date. Apply to the Registrar for a blank for this purpose.

4. ENTRANCE BY SCHOOL CERTIFICATE

Certificates of work done in public or private schools, in or out of the State, may be accepted in lieu of passing entrance examinations, if the University authorities are satisfied with the standing of the school and if the applicant has completed a full regular course in the school and has been duly graduated after at least one year in the school.

The University does not engage in advance to accept the certificate of any school and the previous acceptance of certificates does not establish a permanent right to expect further acceptance, but merely raises the presumption that similar certificates will be accepted.

Three separate steps must be taken before a student of any school will, on its certificate, be admitted to a college of Cornell University.

(a) The principal of the school must by formal application secure the certificate privilege for his school. (b) The principal of the school must submit a school certificate duly filled out for the individual candidate for admission. (c) The candidate himself must make a personal application for admission to the particular college of Cornell University in which he intends to study. Official blanks for each of these purposes may be obtained from the Registrar of Cornell University and when duly filled out should be returned to him.

The school certificate should be forwarded by the principal as soon as possible after the graduation of the candidate. The application for the certificate privilege should, unless previously granted, accompany the school certificate. The candidate's personal application for admission to a particular college should be sent as early as possible after the candidate has decided in which college of Cornell University he desires to study. The application will be considered merely as a declaration of intention, and will impose no obligation upon the prospective student.

The school certificate should include all the subjects that the candidate has satisfactorily completed in the school, whether or not they are required by the particular college in which the candidate proposes to study; neglect to comply with this regulation may entail serious inconvenience and disappointment to the student. The school certificate may include subjects in which an examination has been passed for admission to the school. No additional or supplementary certificate will be considered after the first college term.

A unit means five prepared recitations a week for one year of study, or 120 sixty minute hours. Two hours of laboratory work is considered equivalent to one hour of prepared recitation, but see Drawing on page 23.

If the candidate has not had five periods a week for one year in any subject but has had not less than 120 actual hours (7,200 minutes) of recitation in the subject and the school desires to recommend him for one unit of credit, the school certificate must show the exact number of actual hours of recitation.

Notebooks in general need not be submitted and should not be sent unless they are in individual cases specifically requested by the Registrar.

Subjects in which work has been done privately outside of the regular school curriculum, even if under the direction of teachers in the school, should not be included in the certificate.

The candidate must take his entrance examinations at Cornell University (in Ithaca or in New York City) in September if by that time he has not been notified that his school certificate has been accepted. Entrance examinations will be given in September and January only, as specified on p. 12.

If in any entrance subject a student has failed to pass the Cornell or any other University Entrance Examination, or the College Board Entrance Examination, or the Regents' examination, he will not thereafter be allowed to offer a school certificate in that subject unless, subsequently to his failure, he shall have pursued the subject regularly in class for the full time required and shall have done the full amount of work required for entrance in the subject.

Admission on school certificates is in all cases provisional. If, after admission to the University, a student fails in any subject dependent upon an entrance subject for which a school certificate has been accepted, credit for that entrance subject may be cancelled.

All communications and requests in connection with admission by school certificate should be addressed to the Registrar of the University. The University will welcome any special or personal information that school principals may care to furnish in connection with individual applicants for admission.

COLLEGE CREDIT EXAMINATIONS FOR SURPLUS ENTRANCE

Credit towards a degree for work done in a preparatory school, upon subjects (Nos. 1-18, incl.) which may be offered for entrance to the University, will be given only to those students who, in addition to satisfying all entrance requirements, pass separate examinations in the subjects for which they seek college credit. These examinations will cover substantially the same ground as the University courses in the corresponding subjects. An applicant who desires a college credit examination of this kind must apply to the Registrar as early as possible, in 1917 not later than September 12, specifying which fifteen units he intends to offer in satisfaction of the entrance requirements, and upon what other entrance subjects he wishes to be examined for college credit.

In case he fails to satisfy the entrance requirements in any one or more of the subjects which he has offered for entrance, but passes the college credit examination in any other subject or subjects, he may use the latter for satisfying the entrance requirements, but in that case he cannot also receive college credit therefor. The college credit examinations will be held in September, on the dates set for the entrance examinations in the same subjects.

A candidate using No. 19 of Entrance list (see page 10) to make his fifteen units may not apply for a surplus entrance examination as described above.

ADMISSION FROM OTHER COLLEGES

A student who, having already attended a college or a university, desires to be admitted to a regular course in a college of Cornell University, should file by mail with the Registrar of Cornell University, on an official blank to be obtained from him, a formal application for admission to one of the colleges of the University, along with an official certificate from the college or university which he has already attended, giving evidence of (1) his honorable dismissal, (2) his entrance examinations in detail, (3) his terms of attendance and the amount of work that he has taken, and (4) a detailed statement of the courses pursued. He should send also a catalogue of the institution, writing on it his name and marking the entrance requirements which he has satisfied and each subject which he has taken. All applicants for admission from other colleges should consult the special announcement of the college in which they propose to study.

ADMISSION OF SPECIAL STUDENTS

A person, ordinarily one of considerable maturity, may under certain circumstances, even without satisfying the entrance requirements, be admitted to one of the colleges of Cornell University as a special student not a candidate for

a degree. The applicant must give evidence of ability to do creditable work in the college and his application for admission must be recommended by the department in which he proposes to do the main part of his work.

If a person admitted as a special student without satisfying the entrance requirements subsequently satisfies these requirements, he may be graduated under the ordinary regulations that obtain in the particular college in which he is studying. He will not be permitted, however, to make up deficiencies in entrance subjects by attending University instruction in those subjects.

Candidates for admission as special students must file their applications directly with the dean of the particular college in which they propose to study.

Special students in the College of Arts and Sciences must be at least twenty-three years of age; in the College of Law, in the College of Architecture, and in Sibley College, twenty-one years of age.

The College of Civil Engineering admits as special students persons at least twenty-one years of age who are college graduates and who intend to pursue advanced work without being candidates for a degree. The Sibley College of Mechanical Engineering requires that its special students shall have had engineering experience and the equivalent of the mathematics specified for the admission of regular students.

Special students in the College of Agriculture must have had two full years of recent farm experience and, unless they can satisfy all the entrance requirements for the regular course, must be at least twenty-one years of age.

THE BEGINNING OF THE UNIVERSITY COURSE

The first formal step at the beginning of the University career is the act of registration in the University. September 24 and 25 are the days for the registration of new students in 1917.

A candidate, to be entitled to register, must present a formal registration permit, which is a card issued by the Registrar and sent to the candidate as soon as the requirements for entrance have been satisfied. This registration permit is ordinarily sent direct to the home address of the prospective student if he is entering by School Certificate, College Entrance Board Examinations, or Regents' credentials. If the candidate is entering by the September Cornell Examinations, in New York City or in Ithaca, the registration permit is ordinarily sent to his local address as soon as the requisite examinations have been passed.

If the candidate is entitled to this registration permit but has for any reason not received it by September 24, 1917, he should call in person at the Registrar's office and procure it.

The registration permit bears on its face all the necessary directions for the candidate's registration in the University.

No candidate will be allowed to register after September 25, 1917, unless he has first obtained the special permission of the dean of the college in which he purposes to study.

With a student's first registration in the University there begins for him a period of greater personal responsibility than he has ever before been called upon to face. He should realize that the success of his University career depends in large measure upon his individual ideals, his individual industry, and his

individual determination to make the best possible use of his opportunities. Cornell University offers its equipment; its officers of instruction and administration stand ready to help with their personal encouragement and advice; but after all, the ultimate responsibility for success or failure rests upon the individual student himself.

With reference to details of curriculum, subjects to be studied, requirements for the degree, etc., the prospective student should consult the special announcement of the particular college which he intends to enter. Several of the colleges publish hand books of information for their students. These may be obtained from the deans of the several colleges.

In the College of Arts and Sciences, where there is a considerable range of choice in studies to be pursued, an adviser from the teaching staff will be assigned to each freshman and each sophomore to consult with him in regard to his studies. In other colleges, where the curriculum is more or less definitely fixed, this control is exercised directly by the dean of the college or by a special class adviser.

No college in the University undertakes to send to parents or guardians regular reports of the progress and standing of the students under its control. Students in the University are regarded as responsible young men and young women and a constant effort is made to inspire and develop in them the sense of this personal responsibility and the realization that their success or failure is, in the last analysis, a matter of their own making.

PAYMENTS TO THE UNIVERSITY

TUITION

Regular Year	\$150
Third Term in Agriculture	75
Summer Session	30
Summer School in Agriculture	30†
Winter Courses in Agriculture	25†

Students upon registering become liable for the tuition fee for the term.

The tuition fee is payable in installments of \$85 at the beginning of the first term and \$65 at the beginning of the second term. In the Medical College in New York City the entire fee is payable at the beginning of the year.

The tuition fee for any term may be refunded to any student who, for reasons satisfactory to the Comptroller and the Registrar, withdraws within twenty days after the first registration day.

A student who withdraws from the University, for reasons satisfactory to the Comptroller and the Registrar, on or before November 15 or April 1, may have refunded one-half of the tuition fee for the current term.

Students registering after December 1 pay for the remainder of the first term two-thirds of the tuition fee for the first term. Students registering after April 1 pay for the remainder of the second term two-thirds of the tuition fee for the second term.

†Tuition is free to students in the Winter Courses in Agriculture who for one year immediately preceding have been bona fide residents of New York State. For provisions governing free tuition in the Summer School in Agriculture, see the special announcement of the University Summer Session.

Graduate School. Graduate students who are candidates for an advanced degree are charged tuition at the tuition rate charged in the college in which the major subject is taken. In the case of graduate students who are not candidates for a degree, tuition is charged pro rata, the rate in each case being that of the college in which the subject is taught.

Tuition is free to graduate students for work in the State College of Agriculture. For each Graduate School minor subject taken outside the College of Agriculture, when the major subject is taken in the College of Agriculture, one-sixth of the regular tuition rate of the college in which the minor is taken, will be charged. For each Graduate School minor taken in the College of Agriculture by students whose major subject is in another college, one-sixth of the regular tuition rate will be deducted. Tuition is free to holders of University fellowships or graduate scholarships.

Instructors and Assistants registered in the Graduate School are exempt from payment of tuition for work approved by their Special Committee provided the major subject is in the line of work in which they are instructing.

No student will receive the Master's degree who has not paid tuition for at least one full year, and no one will receive the doctor's degree who has not paid full tuition for at least three years, unless one or more of these years have been spent in graduate study at another University.

Free Tuition. Tuition is free to students who hold New York State Tuition Scholarships.

Tuition is free to students pursuing full, special, and short courses in the State Agricultural and Veterinary Colleges who at the beginning of the college year are and for at least twelve months prior thereto have been bona fide residents of the State of New York. No student shall be allowed to transfer from any such course to another course where tuition is charged without first paying the regular tuition fees for the hours for which he receives credit in the latter course.

Instructors and Assistants having a degree are exempt from tuition for work leading to the first degree of the college in which they are instructing.

All tuition and other fees may be changed or increased by the Trustees to take effect at any time without previous notice.

OTHER FEES AND EXPENSES

A matriculation fee of \$5 is charged all students on entering the University.

A registration fee of \$5 is charged each student registering for the first time in the Summer Session.

Every student (except those registered in the Medical College in New York City) is charged an Infirmary fee of \$3 a term, payable at the beginning of each term. Students in the winter courses in Agriculture, are required to pay the Infirmary fee for one term. In return for the Infirmary fee, any student who is ill, is on his physician's certificate admitted to the Infirmary, and is given without further charge a bed in a ward, board, and ordinary nursing, for a period not exceeding two weeks in any one academic year.

Extra charges are made for private rooms, special food, and special nurses. If an ill student who has not received two weeks' service in the year is refused admittance to the Infirmary, by reason of lack of accommodation or if he is not

cared for elsewhere by the University, he is entitled to a refund of the fee for both terms.

Students in the University Summer Session and in the Summer School in Agriculture have all the privileges of admission to the infirmary. They pay no fee in advance, but are liable for regular charges for services rendered.

For medical advice, see page 44.

Each male undergraduate student registered in the University shall be charged a locker fee of \$2.00 per term, which locker fee shall cover the use of a locker in the University gymnasiums, or in the State Drill Hall, or in Schoellkopf Memorial Building with the use of bathing facilities and towels therein and the use of the Cornell University gymnasiums and play grounds.

Students registered in Sibley College or the College of Civil Engineering are charged \$12.50 a term for material used in College shops and laboratories; students not registered in Sibley College but taking work in the Sibley shops are charged at the rate of \$3.50 per record hour. A student who has taken while in a non-engineering college of this University part of the work required for an engineering degree shall, before receiving the technical degree, be required to pay to the University Treasurer such amount as would have been necessary if all such work had been taken while registered in the engineering college.

A fee of \$5.00 a term is required of students registered in Architecture for materials used in the draft rooms and laboratories. Students not registered in Architecture but taking work in design or drawing from life, must pay a fee of \$5 per term; for other courses in drawing or modelling \$2.50 per term.

A graduation fee of \$10 is required of each person taking a first or undergraduate degree, and one of \$20 of each person taking an advanced degree. When the degree is to be conferred at Commencement, this fee must be paid at least ten days prior to Commencement Day. When the degree is to be conferred at another time than Commencement (September or February), the graduation fee must be paid at least ten days prior to the date on which it is to be conferred. The amount paid will be refunded should the degree not be conferred.

Every person taking laboratory work or courses where a fee is charged must pay to the Treasurer the required fee or the required deposit for the materials etc., to be used in the work. Members of the instructing staff who are registered as graduate students shall be exempt from the payment of the laboratory, shop, and agricultural fees in courses taken or in research pursued in the department in which they are employed to give instruction.

A reinstatement fee of twenty-five dollars is charged to every student who has been dropped from the University for delinquency in scholarship or conduct, except for such delinquency in scholarship as is due to ill health or to other reasons beyond the student's control, in which case the fee may be remitted upon recommendation of the Dean of the college in which the student is registered.

All students in the University are held responsible for any injury done by them to its property.

A student who fails to pay his indebtedness to the University within twenty days after the last registration day for the term will be dropped from the University.

A student's expenses at Cornell, beyond the stated University fees and a small outlay for books and instruments, depend in large measure on his personal tastes and habits. His expenses, other than those for board and room, may be estimated at the normal rate prevailing throughout that section of the country in which Ithaca is situated.

Parents and guardians are earnestly cautioned against providing their sons and wards with an excessive amount of pocket money. Many young men have been fatally handicapped in their university careers by overindulgence in this respect.

RESIDENTIAL HALLS

The University has five residential halls for men students situated on the Campus and furnishing accommodations for about 420 men. For particulars address the University Treasurer, Ithaca, N. Y. There are, also, many private boarding and rooming houses near the University Campus. In these the cost of board and furnished room, with heat and light, varies from \$5 to \$12 a week. By the formation of clubs, students are sometimes able to reduce their expenses for room and board. Cafeterias are maintained by the University in Cascadilla Hall and in Sibley and one is maintained by the College of Agriculture in the Home Economics Building where meals may be obtained at nominal prices.

Before engaging rooms, students should carefully examine sanitary conditions and should particularly insist on satisfactory and sufficient fire escapes. The University publishes and distributes a list of approved rooming houses. This list is ready for distribution August 15, 1917. New students are advised to come to Ithaca a few days in advance at the beginning of their University duties in order that they may have ample time to secure room and board before the opening of the academic year. The Freshman Advisory Committee offers its assistance to new students in the selection of rooming and boarding houses.

The residential halls for women students are Sage College and Prudence Risley Hall. In these buildings, which are exclusively for women students, the total cost of board, laundry, and rent of furnished rooms, with heat and light, is \$330 a year. The halls are heated by steam, and lighted by electricity. The University Adviser of Women has jurisdiction over all women students in the University, and women students are not permitted to board and lodge outside of the halls for women except in houses approved by the Adviser, and subject to her direction. Prospective women students should write to the Adviser of Women for information concerning any matters in which they may need assistance. Dormitory facilities for women are inadequate, and prospective students desiring such accommodations are urged to make early application. Inquiries in regard to board and rooms in the women's halls should be addressed to The Manager of Residential Halls, Sage College, Ithaca, N. Y.

SCHOLARSHIPS AND PRIZES

State Tuition Scholarships

(Awarded by New York State)

Under the law of the State of New York the Commissioner of Education is empowered to award annually a number of free scholarships in Cornell University equal to the number of Assembly districts in the State of New York. Each scholarship entitles the holder to free tuition for four years beginning in the September immediately following the award of the scholarship.

Every scholarship holder must satisfy the regular requirements for admission to one of the colleges of the University.

Holders of State Scholarships are notified that failure to register before the close of the last registration day for each term involves the severance of their connection with the University and consequently the forfeiture of their scholarships. The Commissioner of Education fills all vacancies in scholarships.

A State scholarship holder, after regular registration at the University, may receive a leave of absence for the purpose of earning necessary funds to defray his living expenses at the University. If leave of absence for the aforementioned purpose is granted, his scholarship may be extended for a period not to exceed two years, thus making the scholarship valid for a total period not to exceed six years from the date of the original award. State scholarship holders desiring leave of absence on their scholarship should apply at the Secretary's Office, 31 Morrill Hall, Ithaca, New York. Leave of absence from the University does not carry with it leave of absence on state scholarships.

For particulars in regard to the awarding of Cornell University State Scholarships, application should be made to the Commissioner of Education, Albany, New York.

State Cash Scholarships

(Awarded by New York State)

Under the law of the State of New York (Chapter 292, Laws of 1913), State Scholarships have been established in the several counties of the State, to be maintained by the State as provided by law. Five such scholarships are to be awarded each county annually for each assembly district therein. Each such scholarship will entitle the holder thereof to the sum of one hundred dollars for each year of his attendance upon an approved college in this State during a period of four years. A person who receives such scholarship is not restricted in his choice of the college which he desires to attend, or as to the course of study which he proposes to pursue; provided that no such scholarship shall include professional instruction in law, medicine, dentistry, veterinary medicine or theology, except so far as such instruction is within a regularly prescribed course of study leading to a degree other than in one of the above named professions; and provided further, that the college selected by the person entitled to such scholarship is situated within the State of New York, and is incorporated as a college and authorized under the laws of this State and the rules of the Regents of the University to confer degrees.

For particulars in regard to the awarding of State Scholarships, application should be made to the Commissioner of Education, Albany, New York.

University Undergraduate Scholarships

(Awarded by the University)

Eighteen University Undergraduate Scholarships, each continuing for two years and of an annual value of \$200, are offered each year to members of the incoming freshman class. The award is made on the basis of a special competitive examination held in Ithaca in September between the period of the entrance examinations and the opening of the University.

Every candidate for such a scholarship must have satisfied the entrance requirements for one of the colleges of the University.

Holders of New York State Scholarships, either state tuition scholarships or state cash scholarships or both, are eligible for University Undergraduate Scholarships.

The University Undergraduate Scholarships will be awarded on the basis of examinations in three of the eight following subjects:

(a). English. Entrance requirement. See pages 13-15. .

(b). Greek. Greek grammar and composition; translations at sight of simple prose.

(c). Latin. Latin grammar and Cæsar; composition and Cicero; Virgil. See page 15.

(d). French. Third year French. See page 17.

(e). German. Third year German. See page 16.

(f). Spanish. Third year Spanish. See page 18.

(g). Elementary mathematics. Elementary algebra; intermediate algebra; plane geometry. See pages 19 and 20.

(h). Advanced mathematics. Solid geometry; advanced algebra; and plane trigonometry. See page 20.

In choosing three of these eight subjects, every candidate must take English and at least one of the other five languages; and any candidate who does not select either Latin or Greek must take advanced mathematics.

No scholarship will be awarded to any candidate who is reported markedly deficient in any subject in which he is examined, and the right is reserved to fill fewer than eighteen scholarships in the absence of a sufficient number of duly qualified candidates.

Before scholarships are awarded, every candidate must indicate the college and, if several courses of study with diverse entrance requirements are given in that college, the course in which he intends to register. In order to hold a scholarship, if it be awarded to him, he must register in that college or course; and he will forfeit his right to the scholarship, if he transfers to any other college or course, unless, at the time when he was admitted to the University, he had satisfied, as shown by the records of the University, all the entrance requirements for the college or the course to which he transfers.

All persons shall be debarred from the competition for these scholarships who have participated in any previous competition for the same, or have been previously registered in this University (including the Summer Session) or in any other university or college.

A University scholarship will be forfeited at any time in case two-thirds of the faculty present at any meeting, notice having been given at the meeting immediately preceding, shall vote that the holder has been guilty of negligence, or of failure to maintain a high standard of scholarship, or of conduct of any kind that is unbecoming for a student holding such a scholarship.

Whenever any of these scholarships shall for any reason become vacant, the vacancy shall be filled as the faculty may determine.

The moneys due on these scholarships are paid at the office of the Treasurer of the University in two equal payments, on the 20th of February and the 25th of June, but no scholarship holder is entitled to receive his semi-annual payment until the Scholarship Committee has examined and approved his record for the preceding term, and until the chairman of the Scholarship Committee has certified that the record is satisfactory.

The special examinations for these scholarships begin on the first day of registration in September. Permits to take the examinations will be issued by the Registrar by mail on application, provided the candidate has satisfied all the entrance requirements and provided the application is accompanied by a statement giving the name of the school at which the candidate was prepared, the name of the principal, and the college degrees held by the candidate.

Special Undergraduate Scholarships

The Frank William Padgham Scholarship. This scholarship, founded by Amos Padgham of Syracuse, New York, in memory of his son, Frank William Padgham, M.E. '88, entitles the holder to free tuition and fees in the regular course in Sibley College of Mechanical Engineering but cannot be held in connection with a New York State Scholarship. It will be awarded to the candidate, if any, who has had his preparatory education in the public schools of Syracuse, New York, and who, having been admitted to the regular course in Sibley College, shall pass the best examination in a competitive examination on mathematics (solid geometry, advanced algebra, and plane trigonometry) and on two of the following: 1, third year German; 2, third year French; 3, English. The examination for this Scholarship is held at the same time as the University Undergraduate Scholarship examinations; and the candidate must declare his intention to enter the Padgham Scholarship examination and state his qualifications therefore to the Registrar, who will issue the usual permit to enter this special examination. In case no one qualifies for this scholarship in the foregoing manner, the faculty of Sibley College may, with certain restrictions, recommend the awarding of the scholarship to some worthy applicant, preferably from Syracuse. Upon request, detailed information regarding the examination and the awarding of the scholarship will be furnished by the Secretary of Sibley College or the Registrar of Cornell University.

State Grange Scholarships in Agriculture. At its annual meeting in February, 1914, the New York State Grange adopted a resolution whereby \$600 is to be

given to members of the Order in the form of twelve scholarships in the winter courses in agriculture in Cornell University. The scholarships are each of the value of \$50, to be awarded to men or women who attain the highest standing in competitive examinations. The candidate should apply to the Master of the Pomona Grange in his home county, or to the Deputy in counties which have no Pomona Grange.

The following undergraduate scholarships are not open to students at the beginning of their freshman year in the University:

1. **The Boardman Senior Law Scholarship** of the annual value of \$100.
2. **The Fraser Scholarships.** The two scholarships in the College of Law of the annual value of \$100 and \$50 respectively.
3. **The Roberts Scholarship Fund,** providing for five annual scholarships of the value of \$240 each, for students in the College of Agriculture.
4. **The Buffalo Alumni Association Scholarship** of the annual value of \$200, for students who are residents of Erie or Niagara County, New York. The recipient must have been at least one year in some university. Cornell University is not responsible for the award or the payment of this scholarship.
5. **The Student Fund of the Cornell Club of Rochester.** A loan of the annual value of \$200 as a maximum. The recipient must be an upperclassman, must have had at least one year of residence at Cornell University, and must be eligible to membership in the Cornell Club of Rochester, New York. Cornell University is not responsible for the award or the payment of this scholarship.

Scholarships and Fellowships in the Graduate School

There are in the Graduate School seventeen scholarships of the annual value of \$200 each, and twenty-five fellowships of an annual value of from \$400 to \$500 each. Holders of Fellowships and Scholarships are not required to pay tuition. For full information concerning these scholarships and fellowships the announcement of the Graduate School should be consulted.

Prizes

For full information concerning the following prizes, see the special pamphlet on prizes which may be obtained upon application to the Secretary of the University.

1. **The Woodford Prize,** an annual prize in oratory, consisting of a gold medal of the value of \$100.
2. **The '86 Memorial Prize in Declamation,** of the annual value of \$86.
3. **The '94 Memorial Prize in Debate,** of the annual value of about \$94.
4. **The Barnes Shakespeare Prize,** of the annual value of about \$50.
5. **The Guilford Essay Prize,** of the annual value of about \$150.
6. **The J. G. White Prizes in Spanish,** three prizes, each of the value of \$100.

7. **The Corson French Prize**, an annual prize consisting of a gold medal of the value of \$50.

8. **The Corson Browning Prize**, an annual prize consisting of a gold medal of the value of \$50.

9. **The Luana L. Messenger Memorial Prize**, an annual prize of \$50 for the essay giving evidence of the best research and most fruitful thought in the field of human progress or the evolution of civilization.

10. **The Sherman-Bennett Prize**, an annual prize consisting of the income on \$400, for the best essay discussing the principles of free government.

11. **The Frances Sampson Fine Arts Prize**, an annual prize of the value of about \$30, awarded to the student who shows the most intelligent appreciation of the graphic arts and architecture.

12. **The Horace K. White Prizes** of \$15 and \$10 respectively, awarded annually to the most meritorious students in the graduating class of the Veterinary College.

13. **The Sibley Prize in Mechanic Arts**, of the annual value of \$100, awarded to students in the Sibley College of Mechanical Engineering.

14. **The Fuertes Medals**, awarded to students in the College of Civil Engineering for scholarship.

15. **The Sands Memorial Medal**, awarded to students in the College of Architecture.

16. **The Brown Memorial Medal**, awarded to students in the College of Architecture.

17. **The James T. Morrison Poetry Prize**, of the annual value of \$100.

18. **The Eastman Prize for Public Speaking** in the College of Agriculture, an annual prize of \$100.

19. **The John Metcalfe Polk Memorial Prizes** of \$300, \$125, and \$75 respectively, awarded annually to students having the highest standings in the Medical College.

20. **The Dana Prizes** of \$50 and \$25, awarded annually to students in the Medical College.

21. **The Hollingworth Honorarium for Research**, \$50 awarded annually for research in the Veterinary College.

22. **The Whiting Prizes** of \$50 and \$25, awarded to students in the Medical College.

23. **Fuertes Memorial Prizes in Public Speaking**, prizes consisting of \$125, \$35, and \$20 awarded to students in the Colleges of Engineering and Architecture.

24. **Japan Society Prizes** of \$75 and \$25 respectively, for the best essays or articles on Japan, Japanese-American relations, or similar topics, submitted by any student of Cornell University.

25. **The Early English Text Society Prizes**, four publications of the Early English Text Society, awarded as prizes to the students passing the best examinations in Early English.

26. **The James Gordon Bennett Prize** of \$50 for the best work on local and general anæsthesia in the College of Veterinary Medicine.

27. **The Jane Miller Prize** of \$50 for the best work in veterinary physiology.

28. **The Graduate Prize in Philosophy** of \$25, awarded to students in the Graduate School.

29. **The George Chapman Caldwell Prize** of \$50, awarded to a member of the senior class in the chemistry course for general excellence in chemical work.

30. **The Morrison Trophy Cup Prize**, awarded to students in the winter courses for proficiency in debate.

31. **The Stewart Prize** of \$50, awarded to students in the Department of Dairy Industry.

FINANCIAL ASSISTANCE

The F. W. Guiteau Student Loan Fund. Through the generosity of the late Mr. Frederick W. Guiteau and his sister, the late Mrs. Nancy G. Howe, both of Irvington-on-Hudson, New York, a fund, known as the F. W. Guiteau Student Loan Fund, has been established in Cornell University, the income from which, amounting to about \$14,000 annually, is to be used "in advancing and assisting needful, worthy young men in pursuing their studies in said University." There is also a small separate fund available for women students.

The benefits of these funds are open to young men and young women who have been in attendance at Cornell University for at least one year but preference is given to Seniors and Juniors. Account is taken of the applicant's character, scholastic record, and need of financial assistance. Loans are made primarily to cover tuition fees.

Official application blanks to be used in applying for aid from these funds may be secured at the Secretary's Office, Morrill Hall 31, daily 4 to 5 p. m. except Saturday, and all applications should be addressed to the Student Loan Fund Committee, Secretary's Office, Morrill Hall.

The Wurts Fund was established to assist working students in the college of Mechanical Engineering.

The Florence Dearstyne Fund provides an income to be used under the direction of the Federation of Cornell Women's Clubs in assisting needy young women students.

The Polish Student Loan Fund is a gift from Polish students at Cornell to be disbursed to candidates presented by members of the Polish-Club of the University.

The State Scholarship Alumni Fund is the nucleus of a fund to assist needy students. It was established in 1914 by the gift of G. W. Graves, A.B., 1905, M.D., 1908, and is the equivalent of the state scholarship held by him.

The Woman's Guild Fund is the gift of women interested in the University. The income to be used to aid needy sick students.

The Women Students' Loan Fund consists of the former Students' Loan Fund, increased in 1913 by \$7,000, temporarily assigned to the fund by Ex-President

Andrew D. White from funds placed at his disposal by Trustee Andrew Carnegie. The income is lent to needy women students.

The W. C. Seidel Book Fund of \$1,000 provides an annual income to be used to purchase books for poor young men who are working their way through the College of Civil Engineering. Preference is given to Freshmen.

The Agricultural Student Loan Fund is a fund created by students in the College of Agriculture, from which small loans are made to needy agricultural students who can present acceptable security.

The Edwin G. Vail Fund provides that the income shall be expended in the aid of needy students from Dutchess County who may in the annual examination therefor succeed in winning a State Tuition Scholarship in the University.

OPPORTUNITIES FOR SELF-SUPPORT

Many students earn all or a part of their expenses while attending the University. Opportunities for self-support occur chiefly in the line of personal services of various kinds, such as waiting at table, and caring for furnaces, and in the management of various student enterprises, laundry agencies, etc. In practically all the numerous student boarding houses, student waiters are employed, who receive their board in return for their services. The University does not, however, undertake to secure positions. A student's time should be quite fully occupied by his scholastic work, and only those of great determination, who have good health and a strong physique, should undertake the extra burden of any outside employment. No student should begin a course at the University without sufficient funds to meet all the expenses at least of the first year.

Students of high scholarship occasionally have the opportunity of doing some tutoring, and in some of the departments of the various colleges student assistantships with appropriate compensation are open to seniors of exceptional ability and attainments.

The Cornell University Christian Association, through its employment bureau, is always ready to assist students in search of work, and its secretary will welcome any inquiries from men students with reference to opportunities for self-support. Women students in search of employment should address the University Adviser of Women, Sage College, Ithaca, New York.

The Secretary of the University welcomes conferences with all students who desire to find employment during the academic year.

THE UNIVERSITY LIBRARY

The University Libraries contain about 474,000 volumes. The special collections in History, German language and literature, Dante, Petrarch, and Icelandic literature offer unusual facilities for research work. Books not in the library are borrowed, when possible, from other libraries when the need arises. The general library is open during the academic year from 8 A. M. until 10:45 P. M.

SAGE CHAPEL AND BARNES HALL

Religious services, provided for by the Dean Sage Preachership Endowment, are conducted in Sage Chapel throughout the academic year by eminent clergymen selected from the various religious denominations. These services are supplemented by the Cornell University Christian Association, a voluntary organization of students and professors formed for their own religious culture and the promotion of Christian living in the University. The Christian Association has its home in Barnes Hall; it has permanent secretaries and a carefully selected library of biblical literature, also comfortable reading and recreation rooms. Bible study courses are carried on throughout the year.

There is in addition to the Men's Christian Association, a flourishing Young Women's Christian Association, with quarters in Barnes Hall.

The students of the University are welcomed by the churches in the city of Ithaca at all their services.

LECTURES AND CONCERTS

During the course of each year many men of eminence, native and foreign, are invited to lecture before the University or one of its colleges. These lectures are always free to students in all the colleges of the University.

A series of musical concerts at various times during each year is provided by the Department of Music. Weekly organ recitals, with free admission to all members of the University, are given in Sage Chapel or Bailey Hall.

DEPARTMENT OF MILITARY SCIENCE AND TACTICS

University Requirements. Every male student, a candidate for a baccalaureate degree, except in the College of Law,* who is required to take five, six, seven, eight or more terms in residence, must take, in addition to the scholastic requirements for the degree, one, two, three, or four terms respectively, of three hours a week, in the Department of Military Science and Tactics.

The requirements in Military Science must be completed in the first terms of residence; otherwise the student will not be permitted to register again in the University, without the consent of the University Faculty.

General Information. The aim of the Department is to give training which will enable the graduates to serve as officers of a reserve or volunteer force. The students are organized into companies and a band for a course of training prescribed by the War Department.

This course includes physical training, military drill, and the application of fundamental principles of modern infantry tactics. During the second year qualified men may be given optional instruction in units specializing in signal corps, military engineering, and machine gun training. The band is both the cadet and university band. Students regularly enrolled in the Department may be assigned thereto for training, instead of to a company.

*For modifications of these requirements in the case of Law students, see the Announcement of the College of Law.

Any properly qualified member of the Cornell University Corps of Cadets who has satisfactorily passed the first year of his university course, may, on the recommendation of the Commandant, and the nomination of the President of the University, be commissioned as an officer by the University Faculty. The University provides pay, ranging from \$50 to \$250 annually, for each of the fifty-eight commissioned officers of the Corps of Cadets. In addition the senior officers are assistants in the Department.

Any student may elect drill during his entire course at the University.

Each cadet is required to have a uniform consisting of olive drab service coat, cap, breeches, woolen shirt, leggings, black tie, and web waist belt, made according to the specifications of the United States Army. These are at present furnished only by one contractor, maintaining an agent in Ithaca, at a cost to the individual of \$16. High tan shoes must be provided in addition, and the army last is recommended.

DEPARTMENT OF PHYSICAL CULTURE

Four Year Course. Students who are officially relieved of the requirements of Military Science and Tactics are subject to the requirements of the Department of Physical Culture.

Every male student who is a candidate for a baccalaureate degree in the four year course is required to take two years of Physical Culture in case he is relieved of the requirements of the Department of Military Training.

Every woman student who is a candidate for a baccalaureate degree in a four year course, must take throughout the first two years of her course, two and a half actual hours a week in the Department of Physical Culture.

Three Year Course. Every male student who is a candidate for a baccalaureate degree in a three year course is required to take one year of Physical Training in case he is relieved of the requirements of the Department of Military Training.

Every woman student who is a candidate for a baccalaureate degree in a three year course, must throughout the first year of her course, take two and a half actual hours a week in the Department of Physical Culture.

The requirements in regard to Physical Training must be completed by the end of the Sophomore year (i. e., two years before graduation; otherwise the student will not be permitted to register again in the University, without the consent of the University Faculty.

It is the aim of the University to encourage participation in athletics on the part of all students rather than on the part of a few, as it is believed that in well regulated athletics is found, for the great majority of college men, the best solution of the problems of rational and effectual training. Permission is therefore given to the student, under certain limitations, to satisfy the requirement in Physical Culture by taking such forms of exercise as he may choose, provided he is found, upon examination, to be physically sound. He may try for an athletic team, take scheduled walks in the country, or indulge his tastes in other outdoor forms of recreation, such as tennis, golf, etc.

PHYSICAL EXAMINATIONS AND MEDICAL ADVICE

A physical examination is required of all students upon entering the University. The Medical Advisers observe regular office hours at their respective offices in the gymnasium for men and in Sage College.

All students are at liberty and are urged, in case of sickness or indisposition, to consult the Medical Advisers for a diagnosis of their ailments, to the end that they may be informed whether the further attention of a physician is necessary. When students are confined to their rooms, their house stewards or landlords are urged to communicate immediately with the Medical Advisers.

No charge is made for the services of the Medical Advisers.

A student may at any time be requested to withdraw from the University if, in the opinion of the University authorities, the condition of his health is such as to make it unwise for him to remain.

THE CORNELL INFIRMARY

The Cornell Infirmary is the former mansion of the late Henry Williams Sage, for many years chairman of the Board of Trustees of the University. At his death in 1897, his sons, Dean and William Henry Sage, endowed it and gave it to the University for a students' Infirmary as a memorial to their father. In 1912 a modern fireproof addition was erected with a capacity of sixty-two beds.

The Infirmary, which is in charge of an experienced superintendent, is thoroughly equipped in every way, and is open throughout the University year. It provides suitable rooms, food, and nursing for sick students. It has no medical staff; students employ their own physicians among practitioners in Ithaca or elsewhere.

For Infirmary fees see page 32.

ATHLETICS

The University encourages every student to participate in some form of athletic exercises unless prevented by physical disability.

A careful physical examination is made of all new students and exercises are prescribed to meet their individual needs. All men and women who desire to train for athletic competition are examined by their respective medical examiners.

The new playground and Schoellkopf athletic field covering 55 acres on the Campus are within five minutes walk of the main quadrangle and offer ample room for outdoor athletic games and exercises. The Armory and the Gymnasium are used for indoor work during the winter months. Two boathouses, one for the 'varsity crews and one for the college crews, are situated on the inlet to Cayuga Lake, and are the headquarters of the crews during the spring and autumn. Women students have their separate gymnasium, boathouse, athletic field, etc.

A particular effort is made to interest all students in physical exercises not merely those of unusual physical ability who are attempting to become members of some of the organized athletic teams. An athletic league exists among the various colleges of the University and a series of athletic contests is carried on throughout the year. All students in the University except the 'varsity athletes

may participate in these. The games consist of cross-country running, association football, basketball, indoor athletics, baseball, track athletics, and rowing. Participation in these games as well as in such other games as tennis, lacrosse, handball, and golf, and in such forms of exercise as boxing, wrestling, and fencing, is regarded as fulfilling the requirements of the Department of Physical Culture.

Membership on the teams which represent the University in intercollegiate contests is by rigid competition. These intercollegiate sports consist of rowing, football, baseball, track athletics, lacrosse, basketball, cross-country running, hockey, wrestling, fencing, association football, tennis, golf, and swimming.

STUDENT FRATERNITIES AND OTHER ORGANIZATIONS

There are over sixty fraternities at Cornell University. Membership in them is by invitation and election. Many of the fraternities have their own houses in which their members live.

The national, literary, and scientific societies, Phi Beta Kappa, Sigma Xi, Alpha Omega Alpha, and Tau Beta Pi have chapters at Cornell. In addition to these there are various college and departmental and class clubs of a literary or scientific nature. Membership in all these is by election.

Correspondence concerning the publication of Cornell University should be addressed to H. A. Hitchcock, Secretary of Cornell University, Ithaca, New York.

This publication is issued at Ithaca, New York, monthly from July to November inclusive, and semi-monthly from December to June inclusive.

[Entered as second-class matter, December 14, 1916, at the post office at Ithaca, New York, under the act of August 24, 1912.]

The Annual Register (for the year 1915-16, published January 1, 1916, price 50 cents.

Book of Views, price 25 cents.

Directory of Faculty and Students, First Term, 1916-17, price 10 cents, and the following informational publications, any one of which will be sent gratis and post-free on request. The date of the last edition of each is given after the title

General Circular of Information for Prospective Students, December 15, 1916.

Announcement of the College of Arts and Sciences, April 15, 1916.

Announcement of Sibley College of Mechanical Engineering and the Mechanic Arts, January 15, 1916.

Announcement of the College of Civil Engineering, March 15, 1916.

Announcement of the College of Law, May 15, 1916.

Announcement of the College of Architecture, July 1, 1916.

Announcement of the New York State College of Agriculture, June 1, 1916.

Announcement of the Winter Courses in the College of Agriculture, June 15, 1916.

Announcement of the Summer Term in Agriculture, April 1, 1916.

Announcement of the New York State Veterinary College, May 1, 1916.

Announcement of the Graduate School, February 1, 1916.

Announcement of the Summer Session, March 1, 1916.

Annual Report of the President, September 1, 1916.

Pamphlet on prizes, August 1, 1916.

Samples of entrance and scholarship examination papers, December 1, 1916.

Announcement of the Medical College may be procured by writing to the Cornell University Medical College, Ithaca, N. Y.

(This blank is to be filled in and sent to the Registrar)

In the above list a minus sign (—) preceding the name of a publication will indicate that you desire that publication. A plus sign (+) will indicate that you have already received the publication.

Name

Do you intend to enter Cornell University?.....

What course?.....

Address (number, street).....

Place..... State.....